

850146

WOOFER 10" HIGH END WOOFER CSX

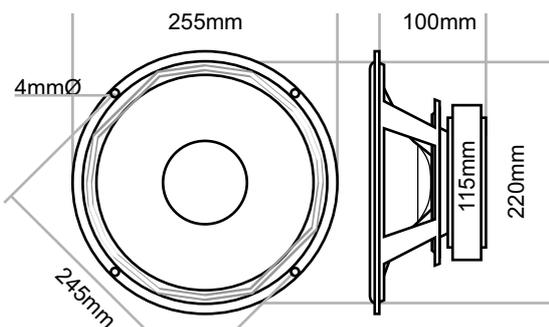
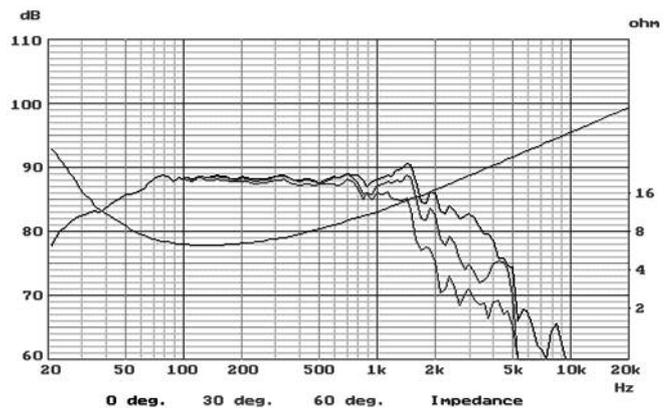
CSX257H - 257 SWR 39 115 SDX 4L AL 8 ohm

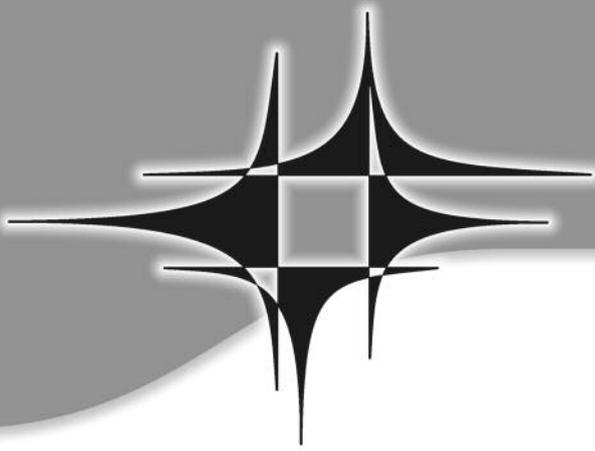
High-end 10" woofer with a 5 layer "Sandwich" cone, extra heavy magnet, extra long 4 layer coil and distortion killer shortcircuit ring in the magnet system. This gives exceptionally good linearity and very deep and clean bass. Also, remark the very smooth response. This CSX 10" woofer is recommended for very versatile use in closed as well as vented boxes. In a reflex box of 100 ltrs. with tunings around 23 Hz it keeps level down to 30 Hz. A remarkable characteristic is the very robust extra thick iron plate basket with a nice structure lacquering. Extra long voice coil wound with large gauge copper to four layers! This driver gives exceptionally good linearity and very deep and clean bass. This driver is designed for home hifi 3/4 way systems but is also suitable for Subs, etc.

Parameters		Free Air	Common	Baffled
Nominal impedance	Zn (ohm)		8	
Minimum impedance/at freq.	Zmin (ohm/Hz)		6.2/130	
Maximum impedance	Zo (ohm)		40.3	
DC resistance	Re (ohm)		5.5	
Voice coil inductance	Le (mH)		2.9	
Capacitor in series with 8 ohm (for impedance compensation)	Cc (µF)		25	
Resonance Frequency	fs (Hz)	22.6		21.9
Mechanical Q factor	Qms	2.56		2.64
Electrical Q factor	Qes	0.40		0.42
Total Q factor	Qts	0.35		0.36
F (Ratio fs/Qts)	F (Hz)			61
Mechanical resistance	Rms (Kg/s)		2.87	
Moving mass	Mms (g)	51.9		55.1
Suspension compliance	Cms (mm/N)		0.96	
Effective cone diameter	D (cm)		20.5	
Effective piston area	Sd (cm²)		330	
Equivalent volume	VAS (ltrs)		144.4	
Force factor	Bl (N/A)		10.0	



Reference voltage sensitivity			
Re 2.83V 1m at 130 Hz (Measured)	(dB)	88.2	
Voice coil diameter	d (mm)	39	
Voice coil length	h (mm)	26	
Voice coil layers	n	4	
Flux density in gap	B (T)	0.85	
Total useful flux	(mWb)	1.34	
Height of the gap	hg (mm)	8	
Diameter of magnet	dm (mm)	115	
Height of magnet	hm (mm)	22	
Weight of magnet	(kg)	0.87	
Long term Max System Power (IEC)	(W)	200	
Code	850146		





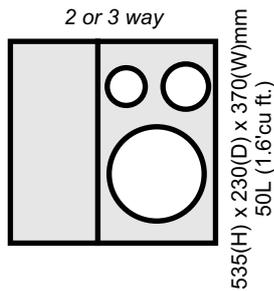
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10" HIGH END WOOFER CSX

Excellent universal 10" driver with exceptional low bass, well behaved characteristics in numerous box types and sizes, and proves itself ideal as a premium quality replacement driver for larger ported style speaker boxes or compact sealed.

Dramatically improves the quality of your sound for a reasonable price! The examples below shows the versatility of this exceptional driver as a replacement or as a new DIY kit speaker. Dimensions are internal.

CLOSED BOX 50L

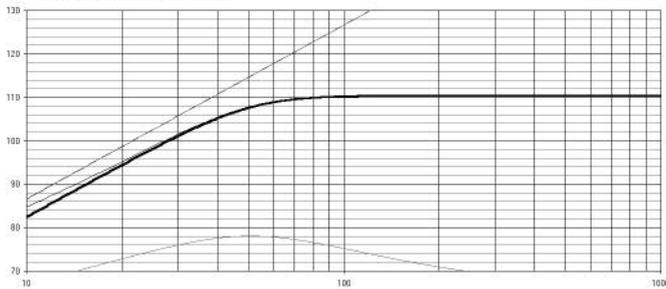
Sealed enclosure design offers simplified construction and no hassles with port tuning or wind noise from the port. Good, firm bass response with the -12dB point being about 25Hz with a soft roll off. Boxes as small as 30L will be OK, See graph....



- SPLtot at 200 W power input
- SPL produced by driver
- SPL produced by tweeter
- SPLtot at 25 mm peak driver excursion
- SPL produced by driver at 25 mm peak excursion

Peerless 850146
Closed Box, Vb = 29 l

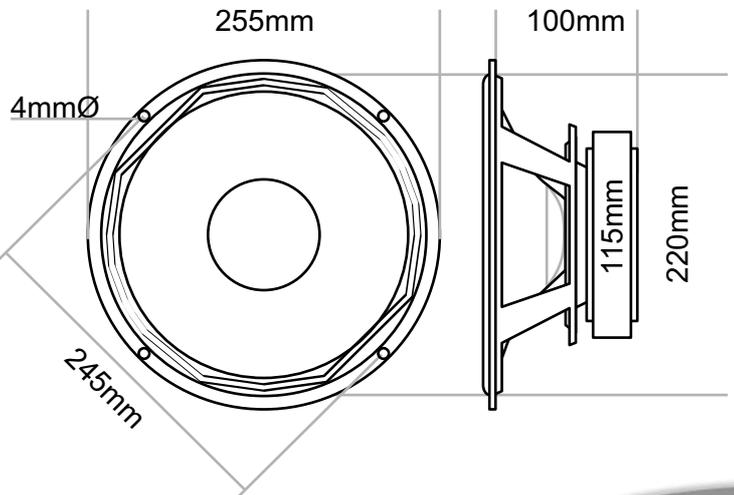
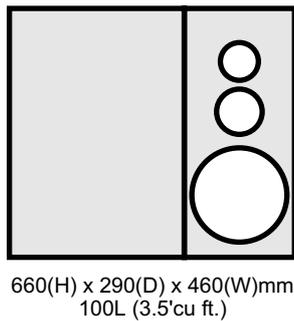
F3 = 0.49 Hz Fb = 0.49 Hz
Response peak = 000 dB
Qa = 0.05 Ql = 0.00



PORTED BOX 100L

The optimum recommended enclosure type and size for this driver. A flat response all the way down to below 25Hz! Dimensions given are internal. Port should rear fire because of edge turbulence at high SPL or use a larger tapered port.

Tuning	Port DxL
25Hz	110 x 400mm
25.5Hz	70 x 140mm
26Hz	66 x 120mm
24Hz	60 x 100mm



- SPLtot at 200 W power input
- SPL produced by driver
- SPL produced by port
- SPL produced by tweeter
- SPLtot at 25 mm peak driver excursion
- SPL produced by driver at 25 mm peak excursion

Peerless 850146
Vented Box, Vb = 100 l

F3 = 0.24 Hz Fb = 0.25 Hz
Response peak = 000 dB
Qa = 20 Ql = 50 Qp = 0

